

PATENT/Docket No. 01453.US1

Serial No. 10/776,837

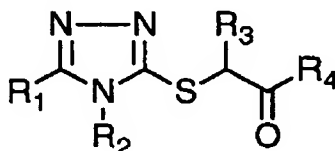
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**AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions and listings of claims in the application.

**Listing of Claims**

1. (Currently amended) A compound of Formula I



Formula I

wherein:

R<sub>1</sub> is thiophene;

R<sub>2</sub> and R<sub>4</sub> are independently selected from the group H, C<sub>1</sub>-C<sub>8</sub> alkyl, phenyl, substituted phenyl, benzyl, and substituted benzyl, ~~heteroaryl, substituted heteroaryl, heteroarylmethylene, and substituted heteroarylmethylene; and~~

R<sub>3</sub> is H, C<sub>1</sub>-C<sub>8</sub> alkyl, heteroalkyl, cycloalkyl, or aryl, ~~heteroaryl;~~

~~with the proviso that the compound is not:~~

~~1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (6);~~

~~1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (7);~~

~~1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (11);~~

~~1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (12);~~

~~2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]-1-phenylethanone (21);~~

~~1-(4-methoxyphenyl)-2-[[5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone (27); or~~

~~1-(4-methoxyphenyl)-2-[[4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone (39).~~

2. (Currently amended) A compound of Claim 1 selected from the group:

~~a) 1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~

~~b) N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenylacetamide;~~

~~c) N-(4-{2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl}phenyl)acetamide;~~

~~d) 1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~

~~e) 1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~

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- ~~f) 6-(((4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)acetyl)-1,3-benzoxazol-2(3H)-one;~~
- ~~g) 1-(4-methoxyphenyl)-2-((5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~h) 1-(4-fluorophenyl)-2-((5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~i) 1-(2,4-dichlorophenyl)-2-((5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~j) 1-(3,4-dihydroxyphenyl)-2-((5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~k) 1-(2,4-dichlorophenyl)-2-((5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~l) 1-(4-methoxyphenyl)-2-((4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~m) 1-(4-chlorophenyl)-2-((4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~n) 1-(4-fluorophenyl)-2-((4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~o) 1-(2,4-dichlorophenyl)-2-((4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~p) 1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-((4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~q) 1-(2,4-dichlorophenyl)-2-((4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~
- ~~r) 2-((4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)-1-(4-methoxyphenyl)ethanone;~~
- ~~s) 2-((4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)-1-(2,4-dichlorophenyl)ethanone;~~
- ~~t) 2-((4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)-1-(4-methoxyphenyl)ethanone;~~
- ~~u) 1-(2,4-dichlorophenyl)-2-((4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio)ethanone;~~

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- v) 1-(4-methoxyphenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone; and
- w) 1-(4-fluorophenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone.

3. (Currently amended) The A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of Formula-Claim 1 or a pharmaceutically acceptable salt thereof.

4. (Currently amended) The method of Claim 3 wherein the compound is:

- a) ~~1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- b) ~~1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- c) ~~1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- d) ~~N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenyl)acetamide;~~
- e) ~~N-(4-[2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl]phenyl)acetamide;~~
- f) ~~1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- g) ~~1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- h) ~~1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- i) ~~1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- j) ~~6-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl-1,3-benzoxazol-2(3H)-one;~~
- k) ~~1-(4-methoxyphenyl)-2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- l) ~~1-(4-fluorophenyl)-2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- m) ~~2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]-1-phenylethanone;~~
- n) ~~1-(2,4-dichlorophenyl)-2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- o) ~~1-(3,4-dihydroxyphenyl)-2-[[5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- p) ~~1-(4-methoxyphenyl)-2-[[5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~

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- q) ~~1-(2,4-dichlorophenyl)-2-[[5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- r) ~~1-(4-methoxyphenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- s) ~~1-(4-chlorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- t) ~~1-(4-fluorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- u) ~~1-(2,4-dichlorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- v) ~~1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- w) ~~1-(4-methoxyphenyl)-2-[[4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- x) ~~1-(2,4-dichlorophenyl)-2-[[4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- y) ~~2-[[4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(4-methoxyphenyl)ethanone;~~
- z) ~~2-[[4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(2,4-dichlorophenyl)ethanone;~~
- aa) ~~2-[[4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(4-methoxyphenyl)ethanone;~~
- bb) ~~1-(2,4-dichlorophenyl)-2-[[4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- cc) 1-(4-methoxyphenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone; ~~and/or~~
- dd) 1-(4-fluorophenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone.

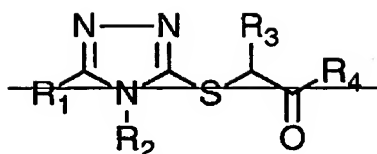
5. (Currently amended) A composition containing a compound of claim 1 or a pharmaceutically acceptable salt thereof. Formula I

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Formula 1

wherein:

$R_1$ ,  $R_2$  and  $R_4$  are independently selected from the group H, C<sub>1</sub>-C<sub>8</sub> alkyl, phenyl, substituted phenyl, benzyl, substituted benzyl, heteroaryl, substituted heteroaryl, heteroarylmethylene, and substituted heteroarylmethylene;

$R_3$  is H, C<sub>1</sub>-C<sub>8</sub> alkyl, heteroalkyl, cycloalkyl, aryl, heteroaryl.

6. (Currently amended) A composition of Claim 5 wherein the compound is:

- a) 1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- b) 1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- c) 1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- d) N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenylacetamide;
- e) N-(4-[2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl]phenyl)acetamide;
- f) 1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- g) 1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- h) 1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- i) 1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- j) 6-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl-1,3-benzoxazol-2(3H)-one;
- k) 1-(4-methoxyphenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- l) 1-(4-fluorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- m) 2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]-1-phenylethanone;
- n) 1-(2,4-dichlorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- o) 1-(3,4-dihydroxyphenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;

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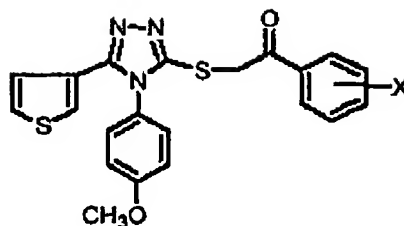
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- ~~p) 1-(4-methoxyphenyl)-2-[[5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~q) 1-(2,4-dichlorophenyl)-2-[[5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~r) 1-(4-methoxyphenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~s) 1-(4-chlorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~t) 1-(4-fluorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~u) 1-(2,4-dichlorophenyl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~v) 1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[[4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~w) 1-(4-methoxyphenyl)-2-[[4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~x) 1-(2,4-dichlorophenyl)-2-[[4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~y) 2-[[4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(4-methoxyphenyl)ethanone;~~
- ~~z) 2-[[4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(2,4-dichlorophenyl)ethanone;~~
- ~~aa) 2-[[4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]-1-(4-methoxyphenyl)ethanone;~~
- ~~bb) 1-(2,4-dichlorophenyl)-2-[[4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio]ethanone;~~
- ~~cc) 1-(4-methoxyphenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone; and/or~~
- ~~dd) 1-(4-fluorophenyl)-2-[[4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio]ethanone.~~

7. (New) A compound of claim 1 of the following formula:

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wherein X is 4-OMe or X is 4-F.

8. (New) A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of claim 7 or a pharmaceutically acceptable salt thereof.
9. (New) A composition containing a compound of claim 7 or a pharmaceutically acceptable salt thereof.
10. (New) A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a composition of claim 9.

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